

# miracle.

The economical solution for the mid-infrared



## Mid Infrared Tunable Laser

High performance cw OPO

- Optimized for vibrational spectroscopy in the C-H stretch region
- Narrow linewidth and fine tuning.
- Hands-free, digital control.

learn more...



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# TOPO smart

## Mid Infrared Tunable Laser



DANGER – VISIBLE AND INVISIBLE LASER RADIATION, AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION, CLASS 4 LASER PRODUCT, EN60825-1:2014

Specifications	
Coarse tuning range	3100 – 3500 nm (3230 – 2855 $\text{cm}^{-1}$ )
Mode hop free tuning range	> 15 GHz (0.5 $\text{cm}^{-1}$ )
Linewidth	< 5 MHz (< $2 \times 10^{-4} \text{ cm}^{-1}$ )
Output power	> 30 mW, free-space
Beam quality factor $M^2$	< 2
Control interfaces	DLC pro touchscreen, PC software, Ethernet, USB, analog remote control
Dimensions laser head (H x W x D)	90 mm x 192 mm x 470 mm
Dimensions control unit (H x W x D)	154 mm x 450 mm x 348 mm
Power supply	100 .. 120 V / 220 .. 240 V AC, 50 .. 60 Hz (auto detect)
Power consumption	typ. 70 W
PC Interface	Ethernet
Environment temperature	15 - 30 °C (operating), 0 - 40 °C (storage and transport)
Environment humidity	Non-condensing

